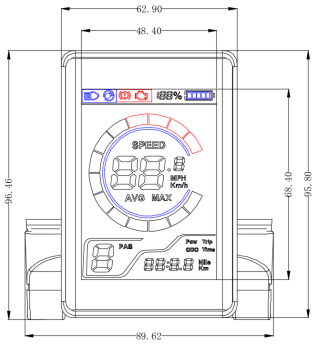
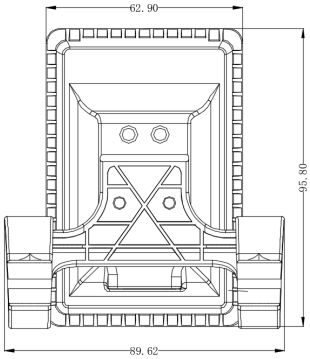
LCD-X1 manual panel use instructions-2022 latest version

一、 Appearance size and material

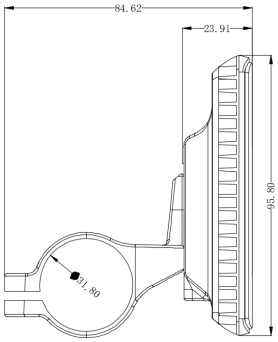
Product shell is ABS, liquid crystal transparent window is imported high hardness acrylic, hardness value is equivalent to tempered glass.

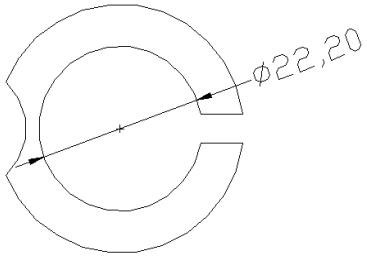


Look-up view



Top view



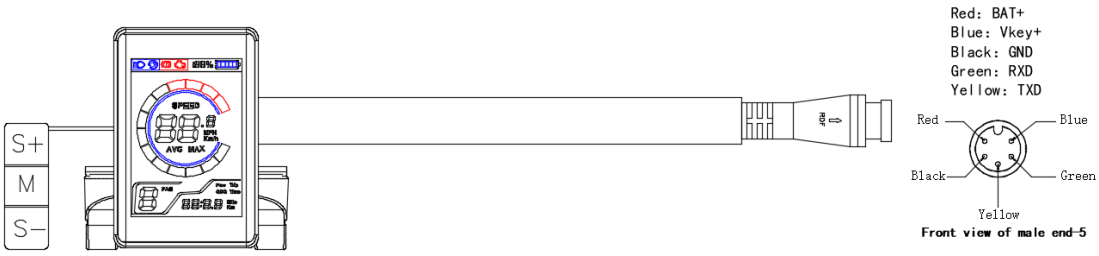


Side view, the conversion ring 22.2, 25.4, 28.6mm is optional

二、 Operating voltage and wiring mode

1. Operating voltage: DC24V, 36V, 48V, 52V, 60V (instrument selection and setting), and other voltages can be customized.

2、mode of connection:



Note: the leads of some products use waterproof connector, and the user cannot see the lead color in the harness.

3. function declaration:

1. Display function

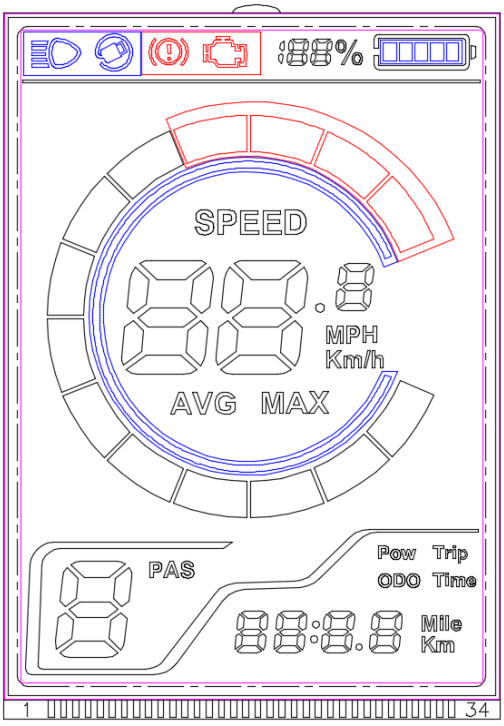
Speed display, power driving gear display, power quantity indication, fault prompt, total mileage, single mileage, headlight display, single driving time display

2. Control and setting functions

Power switch control, headlight switch control, 6 Km/h point movement control, wheel Diameter setting, maximum speed setting, idle automatic hibernation time setting, backlight brightness setting, voltage level setting, etc

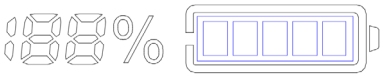
3. Communication protocol: UART

All contents of the display screen (full display in boot 1S)



Display content introduction


3.1 Headlights, USB charging prompt, brake status prompt,

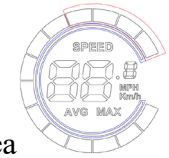

3.2 Battery display BATTERY (BMS support)


3.3 Multi-function display area


Total mileage ODO, single mileage TRIP, digital voltage Pow, single ride time Time, metric mileage Km, British system mileage Mile;

3.4 Power-assist gear

Range 0-9 can display, 6km boost and cruise control display;



3.5 Speed display area

Maximum speed MAX, average speed AVG

Unit of MPH, KM / H

The instrument calculates the true speed based on the wheel diameter and the signal data

3.6 Vehicle status, and the significance of the fault code

Significance of the vehicle status code:

Status code (decimal system)	State meaning	remarks
0	whack	
1	continue to have	
2	stop a vehicle by applying the brake	
3	Power sensor failure (ride sign)	This is not going to happen
4	6KM / H Cruise	
5	Real-time cruise	
6	Battery under pressure	
7	Motor failure	
8	Turn the fault	
9	Controller fault	
10	Communication reception failure	
11	Communication send fault	
12	A BMS communication failure	
13	Headlight fault	

3.7. Settings

P01: backlight brightness, 1 the darkest, 3 the brightest;

P02: Mileage unit, 0: KM; 1: MILE;

P03: Voltage level: 24V, 36V, 48V, default 36V;

P04: Sleep time: 0, no sleep; other numbers are sleep time, range: 1-60; per unit minute;

P05: Power gear: 0,3 gear mode: 1,2V, 2 gear, 3V, 3,4V;
1,5 mode: 1,2V, 2,2.5V, 3,3V,4 gear, 3.5V, 5 gear, 4V;

P06: Wheel diameter: unit, inch; precision: 0.1;

P07: Number of speed measuring magnetic steel: range: 1-100;

P08: Speed limit: range 0-100 km/h, 100 indicates no speed limit,

1. Non-communication state (instrument control): turn off PWM output when the speed is greater than the speed set; when the speed is less than the set speed, automatically open PWM output and the driving speed is ± 1 km/h; (for power speed limit only, no speed limit not)
2. Communication status (Controller Control): Drive speed is maintained at the set point,
   Error: ± 1 km/h; (transfer speed limit)

Note: The value here is based on km. When the unit setting is converted from km to mile, the speed value of the display interface will be automatically converted to the correct mile value, but the speed limit value data set at this menu under the mile interface is not converted, which is inconsistent with the actual displayed mile speed limit value;

P09: zero start, non-zero start setting, 0: zero start; 1: Non-zero start;

P10: Drive mode setting 0: Power drive (how much power output by power gear, the switch is invalid).
1: Electric drive (the power gear is invalid by the knob drive).
2: Both power drive and electric drive coexist (electric drive zero start state).

P11: Power assist sensitivity setting range: 1-24;

P12: Power to start the strength setting range: 0-5;

P13: power magnetic steel disk type set 5,8,12 grain magnetic steel three types

P14: The controller flow limit value sets the default 12A range: 1-20A

P15: The function has not been yet opened

P16: ODO zero clearance setting long press the key for 5 seconds ODO zero clearance

P17:0: Non-enable cruise, 1: enable cruise; automatic cruise is optional (valid for Protocol 2 only)

P18: Display speed ratio adjustment range: 50%~150%,

P19:0 gear enabling level, 0: including 0 gear, 1: excluding 0 gear

P20:0:2 Agreement 1:5S Agreement 2: standby 3: standby

4.Button Introductions

4.1 During riding, need change PAS/Speed grades, shortly press  

4.2 During riding, need change data in Multi-function Area, shortly press  ;

Long press  , could switch status between MODE and ON/OFF;

Long press as a compound button, is mainly used for parameter setting, which could reduce misoperation due to complicated operation.

(No compound button with short-time press, because it's difficult to operate.)

4.3 Specific operation explanations

4.3.1 Change PAS grade

Suppose it's PAS mode now,

shortly press  , PAS grade +1

shortly press  , PAS grade -1

4.3.2 Shift the speed display

Long press  +  , to shift the way of speed display

4.3.3 ON/OFF 6KM/H cruising, ON/OFF Headlight, Reset ODO

When e-bike stops, long press  to enter 6KM/H cruising mode. Stop pressing to exit the cruise mode;

Long press  to turn ON/OFF Headlight;

At P16, long press  for 5s to reset ODO.

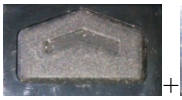
4.3.4 ON/OFF the screen

Long press  to turn ON/OFF the screen.

4.3.5 Change data in multi-function Area

Shortly press  to change data.

4.3.5 Parameters setting

Long press  +  to start setting parameters, such as wheel size(inch), background luminance… (Refer to P01-P20)

On the setting interface, shortly press  , or  to plus/minus value. Parameters would be shining after modifying, choose the ones you prefer,

a. Long press  to save the value, the shining would stop.

b. Shortly press  to shift to the next parameter, and to save current values at the same time.

c. Press  +  to exit setting parameters and to save values. If not press these buttons, it would exit and save parameters modified automatically 10s later.

Note: Due to the upgrade of the company's product, the display content of the product part you get will be different from the instructions, but it will not affect your normal use.